



MILITARY EYE PROTECTION SYSTEM



REQUIREMENT

MNS Log 1.76 Agile Ground Laser Eye Protection System
dtd 30 Apr 93

ORD Log 1.76 Advanced Laser Protection System dtd 27
Apr 98

ORD Log 1.76 Advanced Protective Eyewear System
w/chg1 dtd 21 Jan 00

OVERVIEW

The Military Eye Protection System (MEPS) is to provide ballistic and laser energy protection for Marines. The project has been divided up into two blocks. Block I, Phases I through III, will provide protection from the environment (sun, wind and dust) and low velocity projectiles. Block II will add protection from laser energy where the wavelengths fall within the friendly and threat ranges of the electromagnetic spectrum.

Block I Phase I (FY04) involved the rapid procurement of ballistic eye protection to ensure all Marines in theater had some level of ballistic eye protection. The rapid fielding addressed the needs of Marines requiring corrective eyewear, in the form of a goggle over glasses solution.

Block I Phase II (FY05-07) continues to meet the urgent need of deploying Marines with a single goggle-spectacle system. This system also includes a prescription insert that fits in both the goggle and spectacle.

Block I Phase III (FY07-FYXX) will develop and field eyewear that integrates fully with the head borne system.

MEPS is an improvement of form, fit and function to the Sand, Wind and Dust Goggle (SWDG).

FIELDING STATUS

Goggles:

Unit	A/O	Qty Fielded	%Fielded
I MEF	44,573	44,573	100%
II MEF	48,469	48,469	100%
III MEF	23,622	23,622	100%
MFR	41,335	25,356	61%
BPS	32,625	22,953	70%
Total	190,624	164,973	87%

Spectacles:

Unit	A/O	Qty Fielded	%Fielded
I MEF	44,573	44,573	100%
II MEF	48,469	48,469	100%
III MEF	23,622	23,622	100%
MFR	41,335	20,750	50%
BPS	32,625	24,762	76%
Total	190,624	162,176	85%

FEATURES

- MEPS is designed to protect Marines against sun, wind, dust and ballistic hazards that are common in the battlespace.
- Ballistic standard:
 - Goggles meet MIL-V-43511C 4.5.10 (.22 cal T37 projectile at 550-560 fps)
 - Spectacles meet MIL-PRF-31013 3.5.1.1 (.15 cal T37 projectile at 640-660 fps)
- The pieces of eyewear come with components that allow the user to wear them during both day and night operations.
- Marines have the ability to wear either spectacles or goggles depending upon mission profiles.
- MEPS offers anti-fog capability, increased field of view, and eye ballistic protection.
- The same corrective vision inserts can be used in both the goggles and spectacles.

SUPPLY/LOGISTICS

Goggles

TAMCN: C2171
ID No: 01732D
NSN: 4240-01-504-5727

Spectacles

TAMCN: C2170
ID No: 11117A
NSN: 4240-01-525-5085

PRODUCTION

Eye Safety Systems, Inc manufactures MEPS in Ketchum, ID.

MANUALS

User's Guide

Located at <http://www.marcorsyscom.usmc.mil/sites/pmice/AManuals>

Eyeshield User's Guide

Located at <http://www.marcorsyscom.usmc.mil/sites/pmice/AManuals>

High Adrenaline Eye Protection

Located at <http://www.marcorsyscom.usmc.mil/sites/pmice/AManuals>

Eyeing Some New Goggles

Located at <http://www.marcorsyscom.usmc.mil/sites/pmice/AManuals>

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CORRECTIVE VISION INSERTS FOR MEPS



OVERVIEW

Approximately 25% of Marines require vision correction. Therefore a corrective vision insert was designed that fits in both the goggles and spectacles of the Military Eye Protection System (MEPS). The inserts enables the wearing of standard issue, low profile eye protection with vision protection.

AVAILABILITY

The inserts are supplied by the Naval Ophthalmic Support and Training Activity (NOSTRA) via unit aid stations. Marines who require inserts can order them using the same system they use to obtain their glasses – US Navy Spectacle Request Transmission System (SRTS). Inserts can be fabricated quickly (days) in priority situations.

LENS MATERIAL

Traditionally military corrective eyewear lenses have been made of CR-39 lens material. This material was chosen due to cost and ease of manufacturing. When broken, CR-39 will shatter into shards. To increase the safety of the inserts, NOSTRA has recently begun filling insert orders with more expensive, higher durability polycarbonate. Should a polycarbonate corrective lens be broken, it will not shatter into shards.

COST

The cost for the inserts is borne solely by NOSTRA. There is no direct cost to the Marine Corps or the individual Marine.

LOGISTICS

The inserts are in the supply system; however, the Marines should NEVER be required to make orders via the supply system due to NOSTRA support.

Nomenclature: ESS P-2 Insert, NSN: 4240-01-525-4784



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<http://www.marcorsyscom.usmc.mil/sites/pmice>